(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/090165 A1

(51) International Patent Classification⁷: G01N 33/543

C12Q 1/68,

(21) International Application Number:

PCT/SE2004/000555

(22) International Filing Date: 7 April 2004 (07.04.2004)

(25) Filing Language:

English

(26) Publication Language:

92 Göteborg (SE).

English

(30) Priority Data: 0301038-6

0301038-6 7 April 2003 (07.04.2003) 60/461,197 9 April 2003 (09.04.2003)

(71) Applicant (for all designated States except US): LAYER-LAB AKTIEBOLAG [SE/SE]; Stena Center 1 D, S-412

(72) Inventors; and

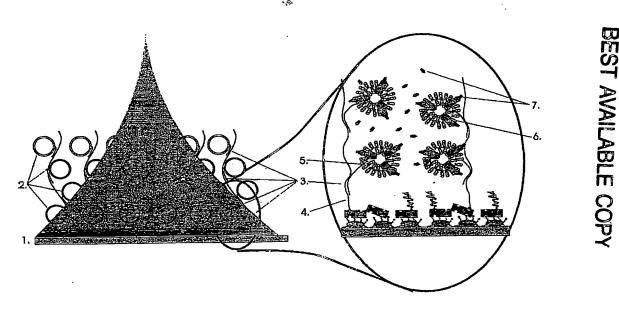
(75) Inventors/Applicants (for US only): GRANÉLI, Annette [SE/SE]; Ekedalsgatan 3 A, S-414 66 Göteborg (SE). REIMHULT, Erik [SE/SE]; Kungshöjdsgatan 11 A, S-411 20 Göteborg (SE). SVEDHEM, Sofia [SE/SE];

Östra Eriksbergsgatan 74, S-417 63 Göteborg (SE). **PFEIFFER, Indriati** [ID/SE]; Ängemarken 11 C, S-413 20 Göteborg (SE). **HÖÖK, Fredrik** [SE/SE]; Stenströmsgatan 4, S-416 56 Göteborg (SE).

- (74) Agent: BERGENSTRÅHLE & LINDVALL AB; P.0. Box 17704, Medborgarplatsen 25, S-118 93 Stockholm (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: SURFACE IMMOBILISED MULTILAYER STRUCTURE OF VESICLES



(57) Abstract: A surface-immobilised multilayer structure of a plurality of vesicles (2), said structure comprising at least one linker (4) immobilised onto said surface, said at least one linker (4) being bound to at least one other linker, which is attached to a vesicle, which optionally may have another linker (5) bound to another linker (5) attached to another vesicle (2), wherein the structure either comprises at least two vesicles (2) bound via linkers (5) to each other or at least two vesicles (2) bound via linkers (5) attached to the vesicles to one linker (4) immobilised onto said surface (1).

WO 2004/090165 A1



TR), OAPI (BF, BJ, CF, ĆG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report

J